



# 喬訊電子工業股份有限公司

CHYAO SHIUNN ELECTRONIC INDUSTRIAL LTD.

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Date Issued	2003/10/20	Data Revised	2017/06/07
Subject :JS-5080 JS-5001-T JS-5001-TA/TPA JS-5081 JS-5081R Pitch : 5.08mm Wire to Board Power Connector Series.			Issued By: Engineering Dept.

*This specification is referred to 5.08mm DIP series wire to board connector.*

本規格書內容係提供 5.08 mm DIP 系列產品相關參考，

其用途為電線端相接於電路板端動力電源連接器

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REV. (版次)	Revision Record (改版變更原因)	Date(日期)	ECN No
B	增加中文敘述 以及增加版次變更註記欄	2010/01/12	EC2010-01-014
C	鹽水噴霧週期以電鍍方式區隔為 8 小時與48 小時	2011/05/27	EC2011-05-080
D	1.增加耐久性測試 2.刪除硫化氫 3.修正(EIA-364) 參考規範 4. 依安規認證增列額定電壓 5.增列 AWG 與額定電流對照 6. 修改 Insertion & Withdrawal Force 並區分單接觸點與三接觸點兩種規格 7. Crimp Terminal Retention Force 原規格 3.0kgf/Min. 修改為3.6kgf/Min.	2012/05/31	EC2012-05-016
E	1 修訂Wave Peak Soldering In- General 230C Temperature Profile 2.修訂Solder Ability 附註Tin Plated : 95% / Gold Plated : 75% 3.修訂Wire Pullout Force(Axial)規格值	2013/12/10	EC2013-12-010
F	1.增訂3.5項Storage of Package以及 3.6 項Floor Life 2. 增訂8.7 項Cold耐寒試驗 3. 修訂8.10.1 項Wave Peak Soldering In- Process Temperature Profile	2014/09/05	EC2014-09-005
G	1 增訂 8.8 項 Salt Spray 鹽水噴霧 2 修正 8.9 項 Solder Ability 焊錫性 3.刪除BSI標示	2017/06/07	EC2017-06-007



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## 1.0 Product Name/Part Number & Drawing Number(產品名稱 / 產品型號及圖面型號):

Product Name(產品名稱)	Part Number(產品型號)	Drawing Number(圖面型號)
Crimp Terminal	(3 Point of Contacts)	JS-5001-TXA / JS-5001-TPA
	(1 Point of Contacts)	JS-5001-TX
Housing		JS-5080-XX
Wafer	Straight (直立式)	JS-5081-XX
	Right Angle (臥式)	JS-5081R-XX

Note: (xx) The number of the circuits.

## 2.0 Construction/Dimensions/Material & Surface Finish(材質以及表面鍍層):

Part Name(零件名稱)	Material(材質)	Surface Finish(表面鍍層)
Crimp Terminal (柳壓端子)	Brass	Stamping after tin-plated (先電鍍後衝壓)
		Stamping Befor tin-Plated (先衝壓後電鍍)
Housing(電線端連接器)	Nylon 66	UL 94V-2
Wafer (電路板端連接器)	Square Pin(方型導體)	Tin-Plated
	Base(膠座)	UL 94V-2

## 3.0 Characteristic(產品特性):

Item(項目)	Standard(標準規範)					
3.1 額定電流 Rated Current	Conductor	AWG	18#	20#	22#	24#
	Size	Area(mm <sup>2</sup> )	0.865 mm <sup>2</sup>	0.534 mm <sup>2</sup>	0.342 mm <sup>2</sup>	0.220 mm <sup>2</sup>
	Amp AC/DC		7 A	5 A	3 A	2 A
3.2 額定電壓 Rated Voltage	250 V AC/DC					
3.3 Ambient Temperature Range 環境與操作溫度範圍	(操作使用溫度與濕度範圍) Operating Temp. : -25°C~+85°C; 85% R.H. Max. Including 30°C Terminal Temperature Rise at rated Current , (包括定額電流內，端子所產生 30°C 以下溫昇)					
3.4 Applicable Wire 適用電線	3.4.1	(金屬導體型號) Conductor Construction Size: AWG #18~#24				
	3.4.2	(電線絕緣材質外徑) Wire Insulation O.D.: 1.30mm~2.50mm				
3.5 Storage of Package 包裝未拆封之保存	Temperature and Humidity Condition 溫濕度條件			Temperature 溫度 : -10°C~+40°C Percentage Humidity 相對濕度: 70 % Max		
	Term	Housing		2 Years		
	保存期限	Crimp Terminal & Wafer		1 Year		
3.6 Floor Life 拆封後使用期限	Crimp Terminal & Wafer			3 Months		



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4.0 Specimen(樣本圖示) :

Part Name / Part Number / Picture or Photograph 零件名稱 / 零件型號 / 樣本圖示			
Housing JS-5080		Crimp Terminal (1 Point Contact) JS-5001-T	
Wafer Straight JS-5081		Crimp Terminal (3 Point Contact) JS-5001-TA/TPA	
Wafer Right Angle JS-5081R			

5.0 Applicable Standards(適用規範):

ANSI/EIA 364 ; EIA/ECA 364 Testing method for electrical connectors.

電子連接器，所適用之 ANSI/EIA 364 ; EIA/ECA 364 測試規範

6.0 Mechanical Performance(機械性能):

Item(項目)	Test Condition(測試條件)	Requirement(規格)
6.1 Insertion & Withdrawal Force 嵌入力與拔出力 (JS-5001-T)	Per circuit when mated to a 1.14mm square pin. Insert and withdraw with connectors at the speed rate of 25.4± 3 mm/minute. <b>( Excluding Friction Lock 不包含膠座卡榫結合力 )</b> 連接器兩端勘合以 1.14 mm 方型導體作互配之一端，依每一分鐘 25.4 ± 3 mm 的速率，作嵌入與拔出往返測試 (EIA/ECA 364-13D)	單一接觸點插入力最大容許值 Per contact insertion force : <b>0.96 kgf/Max.</b> 單一接觸點拔出力最小容許值 Per contact withdrawal force : <b>0.18 kgf/Min.</b>



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Item(項目)	Test Condition(測試條件)	Requirement(規格)
6.2 Insertion & Withdrawal Force 嵌入力與拔出力 (JS-5001-TA/TPA)	Per circuit when mated to a 1.14mm square pin. Insert and withdraw with connectors at the speed rate of 25.4± 3 mm/minute.(Excluding Friction Lock 不包含膠座卡榫結合力) 連接器兩端勘合以 1.14 mm 方型導體作互配之一端，依每一分鐘 25.4 ± 3 mm 的速率，作嵌入與拔出往返測試 (EIA/ECA 364-13D)	單一接觸點插入力最大容許值 Per contact insertion force : <b>1.02 kgf/Max.</b> 單一接觸點拔出力最小容許值 Per contact withdrawal force : <b>0.37 kgf/Min.</b>
6.3 Wire Pullout Force(Axial) 電線脫離端子包覆之 拔出力(軸向)	Pull out the cable from with contact terminal at the speed rate of 25.4± 3mm/minute. 對端子所包覆電線，施以每一分鐘 25.4 ± 3 mm 速率之軸向拔出力 (EIA 364-08B )	AWG#18 size wire <b>9.0kgf/Min.(89N 牛頓)</b>
		AWG#20 size wire <b>6.7kgf/Min.(66N 牛頓)</b>
		AWG#22 size wire <b>5.4kgf/Min.(53N 牛頓)</b>
		AWG#24 size wire <b>3.57kgf/Min.(35N 牛頓)</b>
6.4 Crimp Terminal Retention Force ( in Housing ) 柳線端子 與膠座之間 保持力	Axial pull out force on the terminal in the housing at the speed rate of 25.4 ± 3 mm per minute. 對於已經存在於膠座當中柳線端子，施以每一分鐘 25.4± 3 mm 速率之軸向拔出力	單一接觸點 Per Contact 最小容許值 <b>3.6kgf/Min.</b>
6.5 Square Pin Retention Force( in Base )方型導體 與膠座之間保持力	Axial pull out force on the square pin in the base at the speed rate of 25.4 ± 3 mm per minute. 對於已經存在於膠座當中方型導體，施以每一分鐘 25.4 ± 3 mm 速率之軸向拔出力 (EIA/ECA 364-29C )	單一接觸點 Per Contact 最小容許值 <b>2.0kgf/Min.</b>

#### 7.0 Electrical Performance(電氣性能) :

Item(項目)	Test Condition(測試條件)	Requirement(規格)
7.1 (Low –Signal Level) Contact Resistance (低階信號) 接觸阻抗	A maximum voltage of 20mV and a maximum current of 100mA are applied to the mate connector. 對組合狀態下連接器，於其兩端施以最大測試電壓 20mV 以及最大測試電流 100mA (EIA/ECA 364-23C) ( Does not include wire resistance 不包含電線阻抗 )	Contact Resistance: <b>20 milliohms Max.</b> 最大容許值. 20 毫歐姆
7.2 Insulation Resistance 絕緣阻抗	Apply 500V D/C for 1 minute between adjacent contacts to measure the insulation resistance. (EIA 364-21C) 對相鄰兩接觸導體，於一分鐘時間內施予 500V D/C 電壓，並量測其間絕緣阻抗	Insulation Resistance: <b>Initial 1000megohms Min</b> 最初容許值. 1000 兆歐姆



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Item(項目)	Test Condition(測試條件)	Requirement(規格)
7.3 Withstanding Voltage 耐電壓	Apply <b>1500A/C (rms)</b> for 1 minute and the leakage current shall not exceed <b>0.5mA</b> to the adjacent terminal and ground of the mate connectors. (EIA 364-20C) 對組合狀態下連接器，於其相鄰兩導體末端各施以電 <b>1500A/C</b> (實效值) 時間 1 分鐘，且漏電流必須小於 <b>0.5mA</b> (毫安培)	No breakdown or flashover. 無損毀或者產生火花

## 8.0 Environmental Performance(環境性能) :

Item(項目)	Test Condition(測試條件)	Requirement(規格)
8.1 Durability 耐久性	Mate Connectors up <b>25 Cycles</b> at a Maximun rate of <b>10 cycles</b> Per minute prior to environmental test (EIA/ECA 364-09C ) 以組合狀態下連接器且未經環境測試，依每分鐘內進行 <b>10</b> 次嵌入與拔出之最大速率，連續 <b>25</b> 次嵌入與拔出往返測試	(After the test) Contact Resistance: <b>40 milliohms Max.</b> 經耐久性試驗後接觸阻抗： 最大容許值 <b>40 毫歐姆</b>
8.2 Temperature Rise (Via Current Cycling) 溫度上昇 (經由電流循環操作)	Mate connector . measure the temperature rise of contact when the maximum rated current is passed 以組合狀態下連接器，通過最大容許電流 量測其導體溫度上昇值 (EIA 364-70B Conditions 1 . Method 1)	Mate connectors <b>Temperature Rise:</b> <b>+30°C/Max.</b> 組合狀態下之連接器 溫度上昇 最大容許值 +30°C
8.3 Vibration 耐振動	A mated connector shall be mounted on a printed Circuit board and subjected to a vibration test of the following conditions. During the test, test current continuity shall be checked. After the test, contact resistance shall be measured. 以組合狀態下連接器焊接於電路板作為試驗樣品,依照隨附如下規格要求,進行耐振動試驗，試驗過程中確認是否產生不連續電流(斷電)現象，並於試驗過後量測其接觸阻抗。 (EIA/ECA 364-28E-Condition 1 ) Frequency(頻率) : 10~55~10 Hz/minute. Amplitude (振幅) : 1.5 mm P-P Direction (方向) :1. Axis of up and down.上下軸向(Y 軸) 2. Axis of right the left. 左右軸向(X 軸) 3. Axis of front and back.前後軸向(Z 軸) Period(週期) : 2 hours for each direction.(每一個軸向持續 2 小時)	Initial Contact Resistance : <b>20 milliohms Max.</b> 接觸阻抗最初容許值: <b>20 毫歐姆</b> (After the test) Contact Resistance: <b>40 milliohms Max.</b> 經耐振動試驗後接觸阻抗： 最大容許值 <b>40 毫歐姆</b>  No discontinuity current is longer than 1 microsecond. 電流中斷現象， 時間不可多於1微秒



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Item(項目)		Test Condition(測試條件)	Requirement(規格)
8.4	Humidity (Steady State) 恆溫恆濕	<p>A mated connector shall be placed in a humidity chamber of the following conditions. After the test, leave the specimen at room temperature for 1~2 hours before the contact resistance, the insulation resistance and the dielectric withstanding voltage shall be measured.</p> <p>(EIA 364-31B Conditions III . Method A)</p> <p>以組合狀態下連接器放置於恆定溫度與濕度的空間，依照隨附如下規格要求，進行恆溫恆濕試驗，經試驗過後將樣品置於室溫 1~2 小時，再量測其接觸阻抗、絕緣阻抗、以及耐電壓測試。</p> <p>Temperature(溫度) : 40±2°C.</p> <p>Relative Humidity(相對濕度) : 90%~95% (RH).</p> <p>Period(週期) : 96 hours continuously. (持續 96 小時)</p>	<p>(After the test)</p> <p>Contact Resistance:</p> <p><b>40milliohms Max.</b></p> <p>經恆溫恆濕試驗後接觸阻抗： 最大容許值. 40 毫歐姆</p>
			<p>(After the test)</p> <p>Insulation Resistance :</p> <p><b>500Megohms Min.</b></p> <p>經恆溫恆濕試驗後絕緣阻抗： 最小容許值. 500 兆歐姆</p>
			<p>經恆溫恆濕試驗後耐電壓：</p> <p>(After the test)</p> <p>Withstanding Voltage:</p> <p><b>1500V A/C for 1 minute</b></p>
8.5	Thermal Shock 冷熱衝擊	<p>A mated connector shall be subjected to a thermal shock test of the following conditions. After the test, leave the specimen at room temperature for 1~2 hours before the contact resistance, the insulation resistance and the dielectric withstanding voltage shall be measured.以組合狀態下連接器作為試驗樣品,依照隨附如下規格要求,進行冷熱衝擊試驗,經試驗過後將樣品置於室溫 1~2 小時,再量測其接觸阻抗、絕緣阻抗、以及耐電壓測試。</p> <p>One Cycle Consists Of:</p> <p>(EIA/ECA 364-32D Conditions I . Method A)</p> <p><b>-55 +0/-3°C for 30 minutes. → Room Temp.5 minutes</b></p> <p><b>85+3/-0°C for 30 minutes. → Room Temp.5 minutes</b></p> <p>Total Cycles: 5 Cycles. 以-55+0/-3°C溫度持續 30 分鐘，經室溫 5 分鐘，而後再以 85+3/-0°C溫度持續 30 分鐘，再經室溫 5 分鐘，構成一次冷熱循環，總計循環次數 5 次。</p>	<p>Same as paragraph 8.4</p> <p>同 8.4 章節</p>



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Item(項目)		Test Condition(測試條件)	Requirement(規格)
8.6	Thermal Aging 高溫老化試驗	<p>A mated connector shall be placed in a heat oven of the following conditions. After the test, leave the specimen at room temperature for 1~2 hours before the contact resistance shall be measured. (EIA 364-17B Conditions III . Method A )</p> <p>以組合狀態下連接器放置於加熱烤箱當中，依照隨附如下規格要求，進行高溫老化試驗，經試驗過後將樣品置於室溫 1~2 小時，再量測其接觸阻抗。</p> <p>Temperature(溫度): 85±2°C.</p> <p>Period(週期): 96 hours continuously . (持續 96 小時)</p>	<p>Initial Contact Resistance : 20 milliohms Max.</p> <p>接觸阻抗最初容許值: 20 毫歐姆</p> <p>(After the test)</p> <p>Contact Resistance : 40 milliohms Max. .</p> <p>經高溫老化試驗後接觸阻抗 : 最大容許值.40 毫歐姆</p>
8.7	Cold 耐寒試驗 (Low Temperature)	<p>A mated connector shall be placed in a cold chamber of the following conditions. After the test, leave the specimen at room temperature for 1~2 hours before the contact resistance shall be measured. (EIA 364-59A Procedure 4) 以組合狀態下連接器放置於低溫空間內，依照隨附如下規格要求，進行耐寒試驗，經試驗過後將樣品置於室溫 1~2 小時，再量測其接觸阻抗。</p> <p>Temperature(溫度) : -25±3°C.</p> <p>Period(週期): 96 hours continuously . (持續 96 小時)</p>	<p>Initial Contact Resistance : 20 milliohms Max.</p> <p>接觸阻抗最初容許值:20 毫歐姆</p> <p>(After the test)</p> <p>Contact Resistance : 40 milliohms Max. .</p> <p>經耐寒試驗後接觸阻抗 : 最大容許值. 40 毫歐姆</p>
8.8	Salt Spray 鹽水噴霧	<p>A mated connector shall be subjected to a Salt Spray test of the following conditions. After the test , the specimen shall be washed with running water and dried naturally before the measurement of contact resistance.以組合狀態下連接器作為試驗樣品，依照隨附如下規格要求，進行鹽水噴霧試驗，試驗過後將樣品用清水沖洗並經過自然風乾，而後量測其接觸阻抗。(EIA 364-26B Conditions B)</p> <p>Density(鹽水密度): 5 % in weight. Temperature(溫度): 35±2°C.</p> <p>Period(週期): Terminal or contact (Stamping after tin plated for 8 hours ) ; Terminal or contact (Stamping before tin plated for 48 hours) 端子或導體 (先電鍍後沖壓 8 小時) ; 端子或導體 (先沖壓後電鍍 48 小時)</p> <p>Salt spray test only define the plating area,without plating area (as copper cross section) will not be defined. 鹽水噴霧測試只判定電鍍區域,無電鍍區域(如折斷面裸銅)則不做判定</p>	<p>Initial Contact Resistance : 20 milliohms Max.</p> <p>接觸阻抗最初容許值: 20 毫歐姆</p> <p>(After the test)</p> <p>Contact Resistance: 40 milliohms Max.</p> <p>經鹽水噴霧試驗後接觸阻抗 : 最大容許值. 40 毫歐姆</p>



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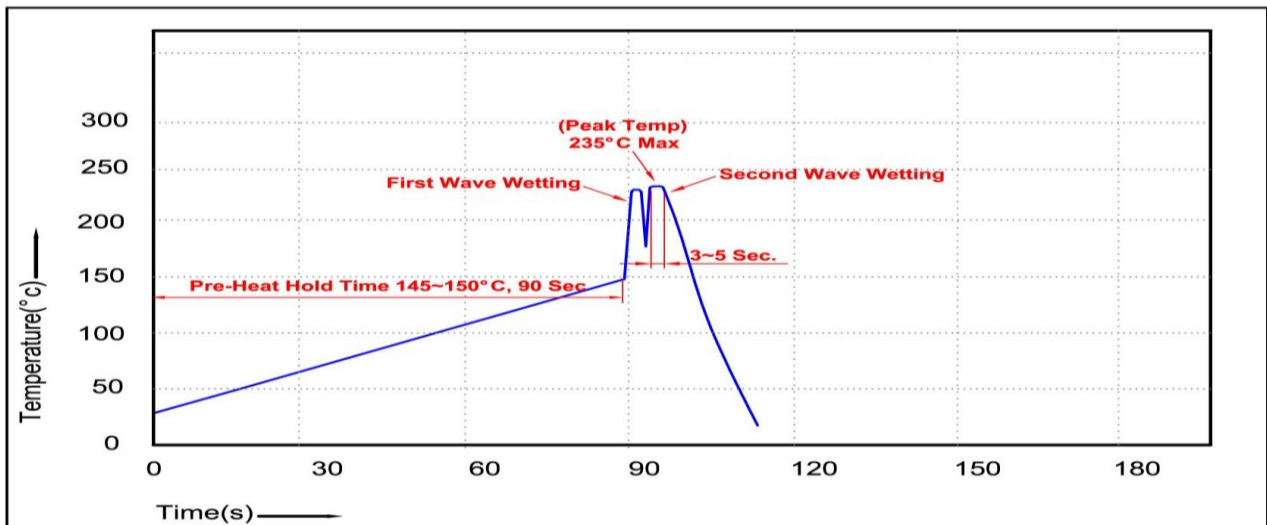
Type Document	Product Specification	Revised /Edition	G
Date Issued	2003/10/20	Data Revised	201706/07
Subject : JS-5080 JS-5001-T JS-5001-TA/TPA JS-5081 JS-5081R Pitch : 5.08mm Wire to Board Power Connector Series.			Issued By: Engineering Dept.

Item(項目)	Test Condition(測試條件)	Requirement(規格)
8.9 Solder Ability 焊錫性	Fluxed soldering section of header shall be dipped in solder of the following conditions. 將連接器 pin 針基板嵌入端，接觸熱溶狀錫料，依照隨附如下規格要求，進行焊錫性試驗 (EIA 364-52B) Solder Temperature (焊錫溫度) : $245 \pm 5^{\circ}\text{C}$ Immersion Period (沉浸週期) : $3 \pm 0.5$ Seconds (操作方式) : 零件焊錫位置，距離導體末端 1.5mm Method : 1.5mm from square pin tip	Solder entirely <b>95%</b> of immersed area must show no voids or pinholes. 焊料覆蓋面積必須達到 95%，而且不能產生氣孔或空隙
8.10 Resistance To Soldering Heat 焊錫耐熱性	By Wave Soldering : 使用波峰焊適用溫度範圍 : Refer to Temperature Profile 請參考 8.10.1 溫度曲線圖 by soldering iron 手工烙鐵焊錫適用溫度範圍 : $350 \pm 5^{\circ}\text{C}$ $3 \pm 0.5$ Seconds. (操作方式) : 零件焊錫位置，距離導體末端 1.5mm Method : 1.5mm from square pin tip (EIA/ECA 364-56C Procedure 3. Conditions A)	No deformation or damage. 不可有變形或損壞

Notes : Flowing Mixed Gas (EIA 364-65A) shall be conduct by Customer request 混合流動氣體測試依照客戶需求

8.10.1 Temperature Profile(溫度曲線圖) :

Wave Peak Soldering In- General Process 波峰焊一般制程



9.0 Remark(備註) : Any change or revision for the product specification will not be announced in advance.

Please contact our sales representative for the latest information.

有關規格書內容經變更或改版，如未能夠及時發佈與通知，煩請連絡我司業務人員以提供產品最新資訊

Reviewed: J.M.Chang Approved: Peter Chang Verified: Indiana Huang